

Soybean Experiments.
North Ridgeville, Ohio
1928

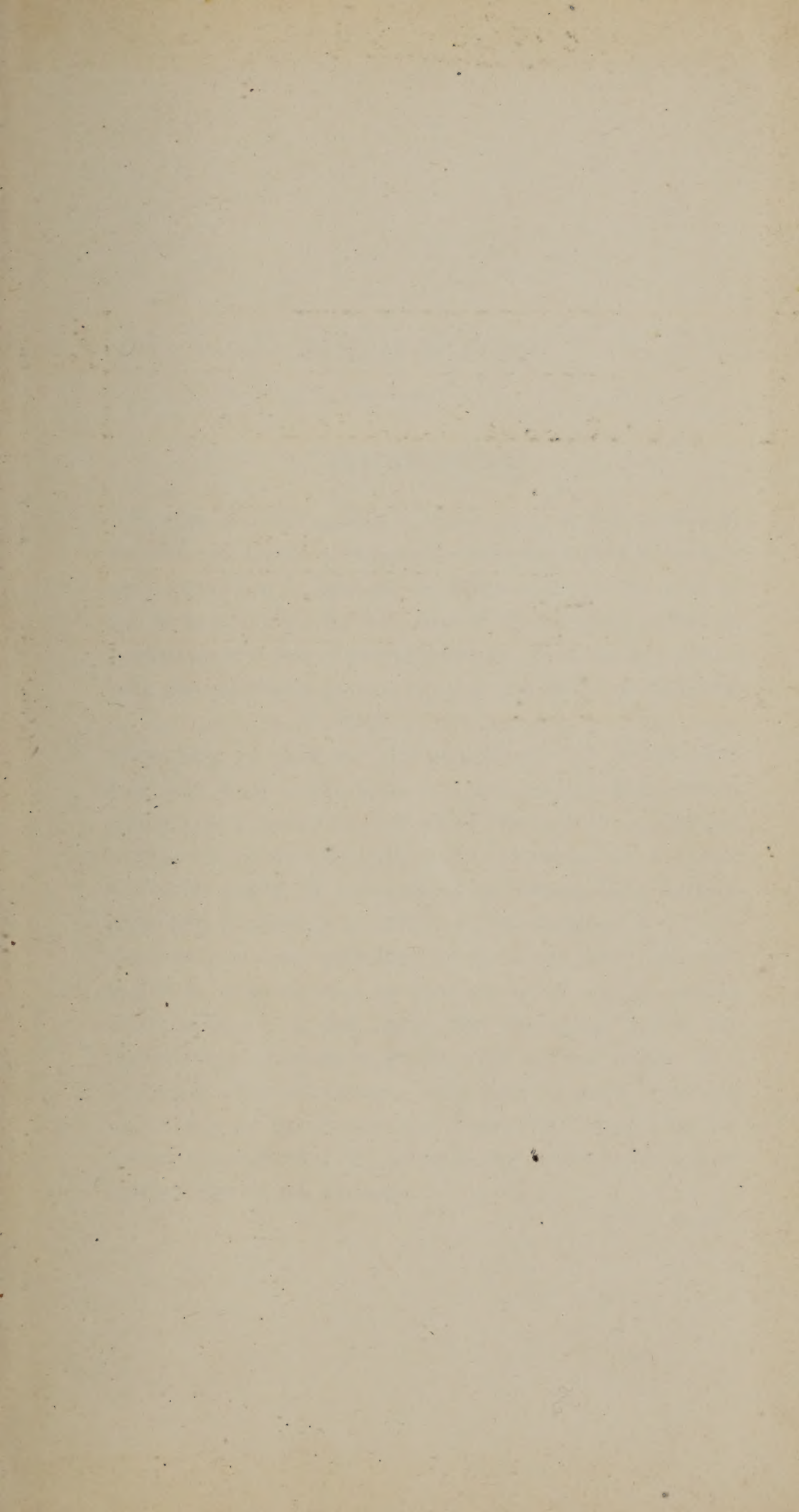
U. S. DEPARTMENT OF AGRICULTURE
BUREAU OF PLANT INDUSTRY

FIELD NOTES

FORAGE CROP INVESTIGATIONS

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FIELD NOTES.

INSTRUCTIONS.

In case of a series of row or plat tests it is desirable to have all the constant conditions recorded for future reference. This can be done on the blank pages in the front of the book for all points not covered by the topic headings. In case several sets of experiments are recorded in a single book the conditions governing each may be given by filling in the outlines provided. (See pp. 7-11.) The blank pages may be used for any additional data which seem desirable, such as the high, low, and mean temperatures, rainfall, and date of the last killing frost in the spring and of the first killing frost in the fall. At the back of the book are blank pages for convenience in making field calculations and temporary notations. Row numbers should be listed in the order that they occur in the field. Records should be made in rate per cent wherever possible and in such manner that the better the variety or strain the higher the percentage recorded. Rules given under "Explanation of headings and abbreviations used in taking field notes in forage-crop investigations" should be followed, in order that the notes on any given crop may be uniform for all the stations.

EXPLANATION OF HEADINGS AND ABBREVIATIONS USED IN TAKING FIELD NOTES IN FORAGE-CROP INVESTIGATIONS.

SIZE OF PLAT.—Stated in fractions of an acre, as $\frac{1}{5}$, $\frac{1}{10}$, etc., or, if nursery rows, length of the row in feet.

RATE OF SEEDING.—Pounds per acre.

STAND.—Given in percentages or number of plants in the row.

DATE.—Given in figures, as 9-15 (September 15).

UNIFORMITY.—Given in percentages.

VIGOR.—Strength or abundance of growth: *p*=poor; *f*=fair; *g*=good; *ex*=excellent.

CONDITION.—If the crop is biennial or perennial, give percentages showing what portion has survived the winter.

FOLIAGE COLOR.—Indicate the shade of green as follows: *g*=green; *l g*=light green; *d g*=dark green; *y g*=yellowish green; *g g*=grayish green; *p g*=purplish green. The superlative degree of any of these colors may be indicated by placing *v* before the color abbreviations, as follows: *v l g*=very light green.

HABIT OF GROWTH.—Described by the following terms: *e*=erect; *s e*=suberect; *d*=decumbent (prostrate, tip ascending); *p*=procumbent (trailing); *v*=vining; *b*=bushy.

STEMS PER PLANT.—Average number of stems produced from one seed, as 7-8.

MEASUREMENTS.—Given in inches unless otherwise indicated.

DISEASE RESISTANCE.—Give the percentage of noninfection; best determined by estimating the percentage of infection and subtracting this from 100.

DROUGHT RESISTANCE.—Indicate the comparative vigor of plants under conditions of drought, as follows: *p*=poor; *f*=fair; *g*=good; *ex*=excellent.

LODGING.—Described as *none*, *little*, *medium*, *much*.

SHATTERING.—Described as *none*, *little*, *medium*, *much*.

QUALITY.—Indicated as follows: *p*=poor; *f*=fair; *g*=good; *ex*=excellent.

ABBREVIATIONS.

GENERAL.—*v*=very; *med*=medium; *p*=poor; *g*=good; *ex*=excellent (indicates an unusually high degree, seldom occurring); *l*=little; *m*=much; *o*=none or nothing; *lg*=long; *s*=short; *sm*=small; *lrg*=large; *ab*=abundant; *few*=few; *cs*=coarse; *sl*=slender.

COLOR.—*v*=violet; *i*=indigo; *b*=blue; *g*=green; *y*=yellow; *o*=orange; *r*=red; *pur*=purple; *pk*=pink; *l*=light (used before a color); *d*=dark (used before a color).

SHAPE.—*ov*=oval; *rd*=round; *obl*=oblong; *lin*=linear; *obo*=obovate; *cor*=cordate; *cyl*=cylindrical; *elip*=elliptical.

Test of _____, 19

Object _____

Location _____

Kind of soil _____

Character of field _____

Previous crop _____

Preparation of seed bed _____

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

Seeding method _____

Test of _____, 19

Object _____

Location _____

Kind of soil _____

Character of field _____

Previous crop _____

Preparation of seed bed _____

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

Seeding method _____

Test of _____, 19_____

Object _____

Location _____

Kind of soil _____

Character of field _____

Previous crop _____

Preparation of seed bed _____

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

Seeding method _____

Test of _____, 19_____

Object _____

Location _____

Kind of soil _____

Character of field _____

Previous crop _____

Preparation of seed bed _____

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

Seeding method _____

Test of _____, 19

Object _____

Location _____

Kind of soil _____

Character of field _____

Previous crop _____

Preparation of seed bed _____

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

Seeding method _____

Test of _____, 19

Object _____

Location _____

Kind of soil _____

Character of field _____

Previous crop _____

Preparation of seed bed _____

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

Seeding method _____

----- *Test of* -----, 19-----

Object-----

Location-----

Kind of soil-----

Character of field-----

Previous crop-----

Preparation of seed bed-----

1. -----

2. -----

3. -----

4. -----

5. -----

6. -----

Seeding method-----

----- *Test of* -----, 19-----

Object-----

Location-----

Kind of soil-----

Character of field-----

Previous crop-----

Preparation of seed bed-----

1. -----

2. -----

3. -----

4. -----

5. -----

6. -----

Seeding method-----

----- *Test of* -----, 19-----

Object-----

Location-----

Kind of soil-----

Character of field-----

Previous crop-----

Preparation of seed bed-----

1.-----

2.-----

3.-----

4.-----

5.-----

6.-----

Seeding method-----

----- *Test of* -----, 19-----

Object-----

Location-----

Kind of soil-----

Character of field-----

Previous crop-----

Preparation of seed bed-----

1.-----

2.-----

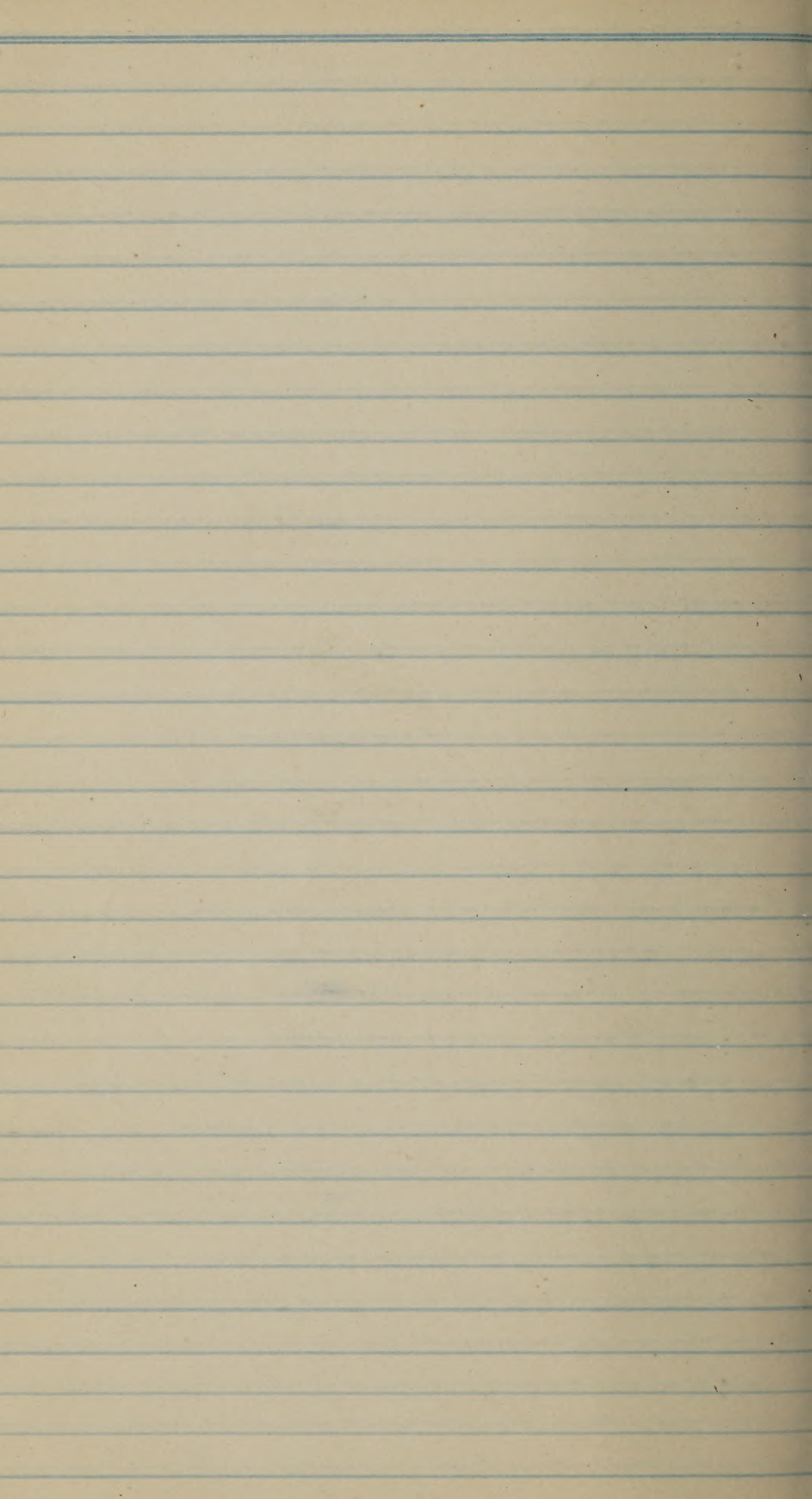
3.-----

4.-----

5.-----

6.-----

Seeding method-----



1 Soybean - 40 Ft. row - Triplicate - 1st Series

Soybean No.	Seed Color	Source	Range	Range No.	Area
Mandarin					
03619-A					
03654-A					
03654-2-1-1-4					
03654-4-2-2-2					
47926					
50523-E					
50523-M					
50523Q					
50536					
53930-1					
53932-3-B					
53939					
54562-1					
54576					
54592-3					
54592-3-A					
54604-1					
54606					
54606-5					

Date sow	% Stand	Date bloom	Color bloom	Uniformity	Pubescence color
	100	7/20			
	100	8/4			
	100	7/28			
	100	7/28			
	100	8-6			
	100	7/26	N		
	100	7/28			
	100	8/1			
	100	8/1			
	100	8/1			
	98	7/23			
	100	7/28			
	100	7/26			
	100	8/4			
	100	7/26	N		
	100	8/6			
	100	8/6			
	100	8/1			
	100	8/4			
	100	8/4			

Date ripe	Height	Habit	Zodg ing	Shattering
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Soybean No.	Seed Color	Source	Range	Range No.	Area
54608					
54608-2					
54615-3					
54615-7					
54616-1					
54616-4					
54617-1-10					
54619-5-1					
54620-3					
54818					
54856					
57334-C					
58951					
6027 ⁹ 5					
63242-2					
65338					
65345					
65359					
65361					
65380					

Date sown	Stand To	Date bloom	Color bloom	Wri Formity	Pubescence color
--------------	-------------	---------------	----------------	-------------	---------------------

100 7/26 H

98 7/23

100 8/4

100 7/28

100 8/4

100 8/1

100 7/23 H

100 7/23 H

100 7/28

100 7/23 H

100 7/26

100 7/26 H

98 8/4

100 7/23 H

100 7/26 H

100 7/23

98 8/4

100 7/23

100 8/1

100 7/30

Date	Time	Height	Habit	Locg- ing	Shattering
1901	10:30	100	100	100	100

Lbs. seed per plot	Bus. seed per acre	Value				Remarks
		seed	Forage	Silage	Pasture	

Soybean No.	Seed Color	Source	Range	Range No.	Area
65397					
65950					
Mandarin Manchu					
Manchu					

Date sewin	To Stand	Date bloom	Color bloom	
---------------	-------------	---------------	----------------	--

100		8/1		
-----	--	-----	--	--

90		7/26	r	
----	--	------	---	--

100		7/23		
-----	--	------	--	--

100		7/23		
-----	--	------	--	--

100		7/23		
-----	--	------	--	--

Date	vine	Height	Habit	Lodg ing	Shattering
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Lbs. seed per acre	Bus. seed per acre	Value				Remarks
		Seed	Forage	Silage	Pasture	

13 Soybean - 40 ft. row - Triglicate 2nd series

Soybean No.	Seed Color	Source	Range	Range No	Area
Mandarin					
Mandarin					
Manchu					
Manchu					
03619-A					
03654-A					
03654-2-1-1-4					
03654-4-2-2-2					
47926					
50523E					
50523M					
50523Q					
50536					
53930-1					
53933-3-B					
53939					
54562-1					
54576					
54592-3					
54592-3-A					

[illegible]

Date ripe	Height	Habit	Locg. ing	Shattering
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[illegible]

Soybean No.	Seed Color	Source	Range	Range No	Area
54604-1					
54606					
54606-5					
54608					
54608-2					
54615-3					
54615-7					
54616-1					
54616-4					
54617-1-10					
54618 *					
54619-5-1					
54620-3					
54818					
54856					
57334-C					
58951					
60279					
63242-2					
65338					

Date Sown	No Stand	Date bloom	Color bloom	Uniformity	Pubescence color
--------------	-------------	---------------	----------------	------------	---------------------

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

95

100

95

100

[illegible]

Lbs. seed per plot	Bus. seed per acre	Value				Remarks
		Seed	Forage	Silage	Pasture	

Soybean No.	Seed Color	Source	Range	Range No.	Area
65345					
65359					
65361					
65380					
65397					
65950					

Date sown	No Stand	Date bloom	Color bloom	Uni formity	Pubescence color
--------------	-------------	---------------	----------------	----------------	---------------------

100

100

98

100

100

85

Date ripe	Height	Habit	Indeg- ing	Shattering

Lbs. seed per plot	Bus. seed per plot	Value			
		Seed	Forage	Silage	Pasture

Remarks

25 Soybean - 40 ft. Row - Triplicate 3rd series

Soybean No	Seed Color	Source	Range	Range No.	Area
Mandarin					
Mandarin					
Manchu					
Manchu					
03619-A					
03654-A					
03654-2-1-1-4					
03654-4-2-2-2					
47926					
50523-E					
50523-M					
50523 Q					
50536					
53930-1					
53933-3-B					
53939					
54562-1					
54576					
54592-3					
54592-3-A					

[illegible]

Date ripe	Height	Habit	Zodg- ing	Shattering
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[illegible]

Soybean No.	Seed Color	Source	Range	Range No.	Area
54604-1					
54606					
54606-5					
54608					
54608-2					
54615-3					
54615-7					
54616-1					
54616-4					
54617-1-10					
54619-5-1					
54620-3					
54818					
54856					
57334-C					
58951					
60279					
63242-2					
65338					
65345					

Date sown	To stand	Date bloom	Color bloom	Knit formity	Pubescence color
--------------	-------------	---------------	----------------	-----------------	---------------------

100

100

100

100

98

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

Date ripe	Height	Habit	Loca- ing	Shattering
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[illegible]

Lbs. seed per plot	Bus. seed per acre	Value				Remarks
		Seed	Forage	Silage	Pasture	

Boycan No.	Seed Color	Source	Range	Range no.	Area
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65359

65361

65380

65397

65950

Date sown	No. Stand	Date bloomed	Color bloom	Uniformity	Pubescence color
-----------	-----------	--------------	-------------	------------	------------------

	100				
--	-----	--	--	--	--

	100				
--	-----	--	--	--	--

	100				
--	-----	--	--	--	--

	100				
--	-----	--	--	--	--

	95				
--	----	--	--	--	--

Date	Time	Height	Habit	Locg- ing	Shattering
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Lbs. seed per plot	Bus. seed per acre	Value				Remarks
		Seed	Forage	Silage	Pasture	

37 Soybean Single Plant Selections

Soybean No.	Seed Color	Source	Range	Range No.	Area
03680-A					
50523-C					
53931-3					
53933-3-C-A					
53933-3-C-1					
53939-3-1					
54573-5-3					
54575-1					
54582					
54582-1					
54583-2					
54607-4					
54607-8					
54608-2					
54608-4					
54610-3					
54613-2					
54613-2-1					
54614-5-2					
Mandarin					

Date sown	No Stand	Date bloom	Color bloom	Uniformity	Pubescence color
--------------	-------------	---------------	----------------	------------	---------------------

	95	8/4			
--	----	-----	--	--	--

	100	7/28			
--	-----	------	--	--	--

	100	7/26			
--	-----	------	--	--	--

	0				
--	---	--	--	--	--

	80	7/26			
--	----	------	--	--	--

	100	7/23			
--	-----	------	--	--	--

	90	7/30			
--	----	------	--	--	--

	100	7/26	N		
--	-----	------	---	--	--

	100	8/6			
--	-----	-----	--	--	--

	100	7/26			
--	-----	------	--	--	--

	100	8/4			
--	-----	-----	--	--	--

	100	8/4			
--	-----	-----	--	--	--

	100	8/4			
--	-----	-----	--	--	--

	85	7/23			
--	----	------	--	--	--

	100	8/4			
--	-----	-----	--	--	--

	95	8/4			
--	----	-----	--	--	--

	95	7/28	N		
--	----	------	---	--	--

	95	7/28	N		
--	----	------	---	--	--

	100	8/6			
--	-----	-----	--	--	--

	100	7/19			
--	-----	------	--	--	--

Date ripe	Height	Habit	Logging	Shattering
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[illegible]

Soybean No.	Seed Color	Source	Range	Range No.	Area
54614-10					
54615-1					
54616-4					
54618-3-A					
54852					
54886-3					
54968					
56886-3 *					
54968 *					
56836					
57316					
57317					
57321-1					
57321-1-1					
57324-A-1					
57327					
57333-1					
57340-B-1					
58947					
58952-A					

Date sown	To stand	Date bloom	Color bloom	Uniformity	Pubescence color
--------------	-------------	---------------	----------------	------------	---------------------

	80	7/23	W		
--	----	------	---	--	--

	95	7/19			
--	----	------	--	--	--

	95	7/30			
--	----	------	--	--	--

	100	8/1			
--	-----	-----	--	--	--

	100	8/1			
--	-----	-----	--	--	--

	100	7/26			
--	-----	------	--	--	--

	97	7/26			
--	----	------	--	--	--

	100	7/26	W		
--	-----	------	---	--	--

	100	7/28			
--	-----	------	--	--	--

	100	7/23			
--	-----	------	--	--	--

	0				
--	---	--	--	--	--

	85	7/30			
--	----	------	--	--	--

	96	7/19			
--	----	------	--	--	--

	97	7/20			
--	----	------	--	--	--

	100	7/28			
--	-----	------	--	--	--

	100	7/26			
--	-----	------	--	--	--

	100	8/4			
--	-----	-----	--	--	--

	100	8/4			
--	-----	-----	--	--	--

Date-192	Height	Habit	Lodg- ing	Shattering
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Lbs. seed per plot	Bus. seed per acre	Value				Remarks
		Seed	Forage	Silage	Pasture	

Soybean No.	Seed Color	Source	Range	Range No.	Area
58953					
Mandarin					
Mandarin					
58957-A					
60185					
61946					
63237					
63281					
65339					
65340					
65341					
65343					
65344					
65346					
65349					
65351					
65352					
65353					
65355					
65356					

Date sown	To Stand	Date bloom	Color bloom	Uniformity	Pubescence color
	97	8/1			
	100	7/19			
	100	7/19			
	10	8/4			
	90	8/6			
	80	8/8			
	85	7/23	W		
	96	7/20			
	100	7/26	W		
	100	7/19			
	100	7/23	W		
	100	7/28			
	100	7/19			
	100	7/23	W		
	98	7/20			
	100	7/28			
	90	7/23			
	100	7/28			
	100	8/1			
	100	7/20			

Seed ripe	Height	Habit	Logging	Shattering

Lbs. seed per plot	Bus. seed per acre	Value			
		Seed	Forage	Silage	Pasture

Remarks

Soybean No.	Seed Color	Source	Range	Range No.	Area
65357					
65358					
Mandarin					
Mandarin					
65360					
65362					
65363					
65364					
65365					
65366					
65367					
65368					
65369					
65370					
65371					
65372					
65374					
65375					
65376					
65377					

Date Sown	No Stand	Date Bloom	Color Bloom	Uniformity	Tubescence color
	95	7/19			
	100	7/26			
	88	7/19			
	100	7/19			
	100	7/20			
	100	7/20			
	100	7/20	r		
	100	7/19			
	100	7/20			
	95	7/23			
	98	7/23			
	100	7/30			
	97	7/23			
	97	7/23			
	98	7/19			
	100	7/19			
	98	8/1			
	100	7/20			
	98	7/20			
	100	7/23	r		

Seed ripe	Height	Habit	lodg- ing	Shattering

Lbs. seed per plot	Bus. seed per acre	Value				Remarks
		Seed	Forage	Silage	Pasture	

Soybean No.	Seed Color	Source	Range	Range No.	Area
65379					
65384					
65386					
Mandarin					
Mandarin					
65387					
65390					
65391					
65393					
65394					
65396					
65398					
65399					
65400					
65401					
65402					
65403					
65404					
65406					
65409					

Date sown	% Stand	Date bloom	Color bloom	Uniformity	Pubescence color
	100	7/20			
	100	7/23			
	100	7/23			
	100	7/19			
	100	7/19			
	100	7/28			
	100	7/26			
	100	7/19			
	100	7/23	hr		
	100	7/23			
	90	8/6			
	87	7/20			
	90	7/20			
	95	7/23			
	86	7/23			
	100	7/28			
	100	7/23			
	98	7/20			
	100	7/28			
	98	7/26			

Seed ripe	Height	Habit	Wedg- ing	Shattering
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Lbs seed per plot	Bus. seed per acre	Value				Remarks
		Seed	Forage	Silage	Pasture	

Soybean No.	Seed Color	Source	Range	Range No.	Area
65410					
65411					
65412					
65414					
7Mandarin					
7Mandarin					
65415					
65417					
65418					
65420					
65421					
65423					
65424					
65425					
65427					
65428					
65429					
65434					
65546					
66406					

Date Sown	No Stand	Date Bloom	Color Bloom	Uniformity	Pubescence
	100	7/20			
	98	7/23			
	100	7/20			
	100	7/20			
	98	7/19			
	98	7/19			
	100	7/23			
	98	7/20	h		
	98	8/4			
	100	7/23			
	90	8/1			
	95	7/23			
	90	7/20			
	100	7/20			
	98	7/20			
	100	7/23			
	100	7/20			
	100	7/28			
	33	7/26			
	60	7/19			

Seed	Ripe	Height	Habit	Lodg ing	Shattering

Lbs. seed per plot	Bus. seed per acre	Value				Remarks
		Seed	Forage	Silage	Pasture	

Soybean No.	Seed color	Source	Range	Range No.	Area
68424					
70233					
70488					
70534					
71852					
73578					
Mandarin					

Date sown	% Stand	Date bloom	Color- bloom	Uniformity	Pubescence color
--------------	------------	---------------	-----------------	------------	---------------------

95 7/20

100 7/23

100 8/1

100 8/4

80 7/23 1/4

90 7/26 1/4

100 7/20

Seed ripe	Height	Habit	Lodg- ing	Shattering
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65 Mung Beans - Single Plant Selections

Mung Bean No.	Area	Range	Range No.	Date Sown	% Stand	Date Bloom
69451	P			5/29	45	8/13
69933	P			5/29	40	8/13
69964	P			5/29	85	8/13
69984	P			5/29	60	8/13
70048				5/29		
70065				5/29	50	8/13
70069	P			5/29	10	8/13
70118				5/29	40	8/13
70132				5/29	85	8/13
70173				5/29	80	8/13
70354				5/29	70	8/13
70362	P			5/29	55	8/13
70369				5/29	55	8/13
70376				5/29	1 plant	8/13
70378	8.2.48			5/29	1 plant	8/13
70388				5/29	80	8/13
70391				5/29	10	8/13
70393				5/29	75	8/15
70400				5/29	70	8/13
71837				5/29	60	8/17
73572				5/29	65	8/20

Per Cent Pods mature

Sept. 1

Sept. 13

Oct. 2

Oct. 15

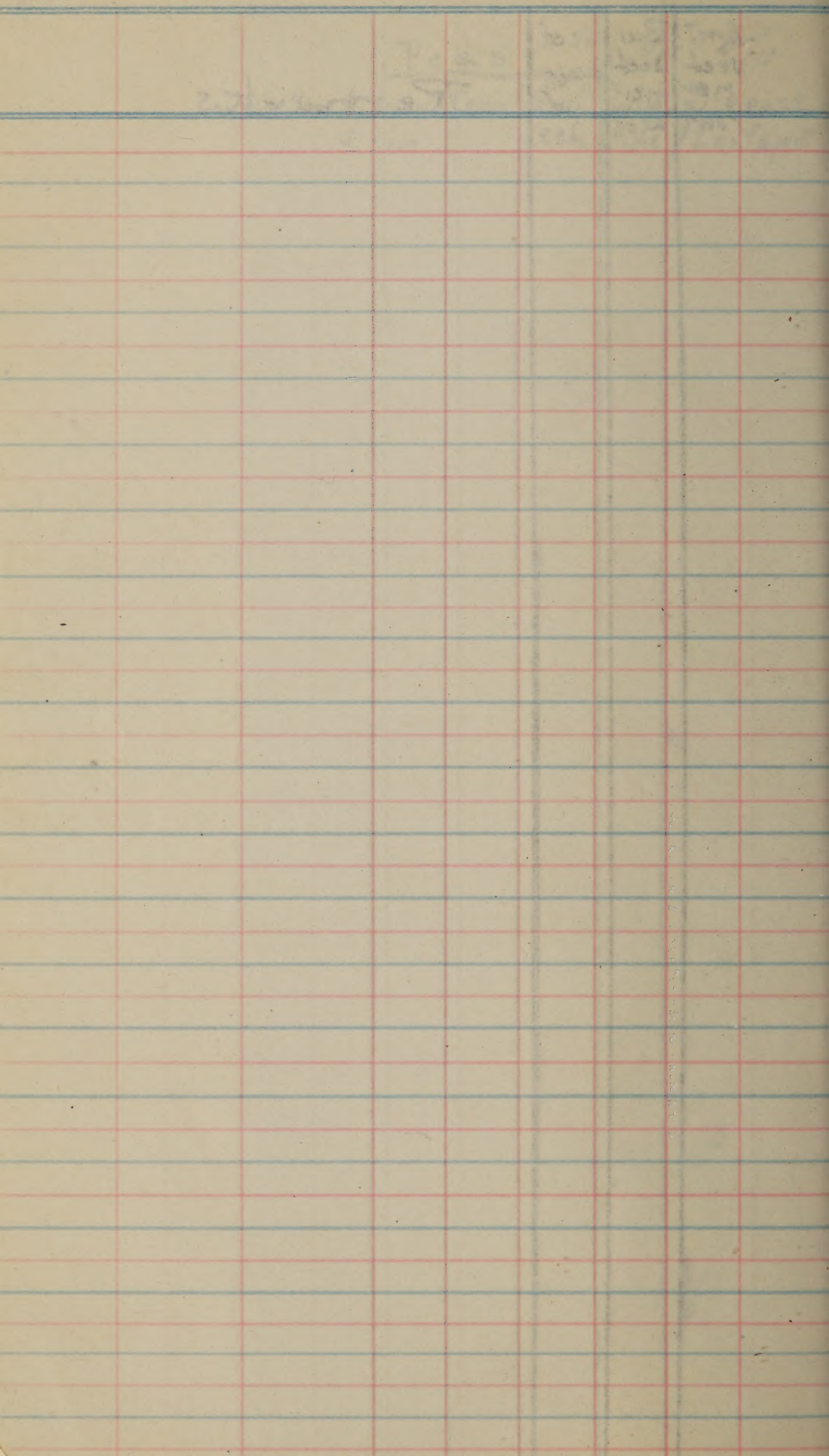
Height

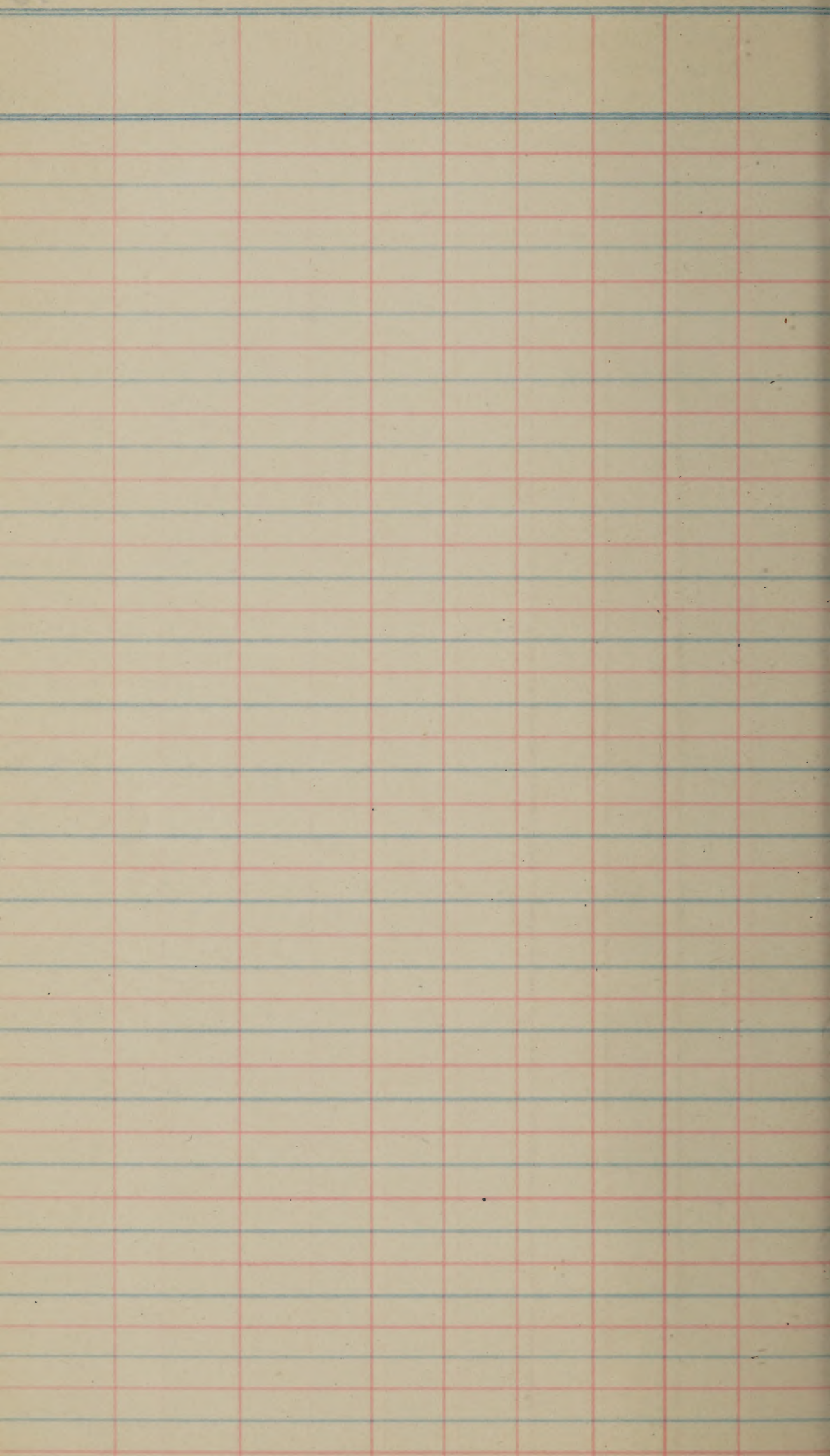
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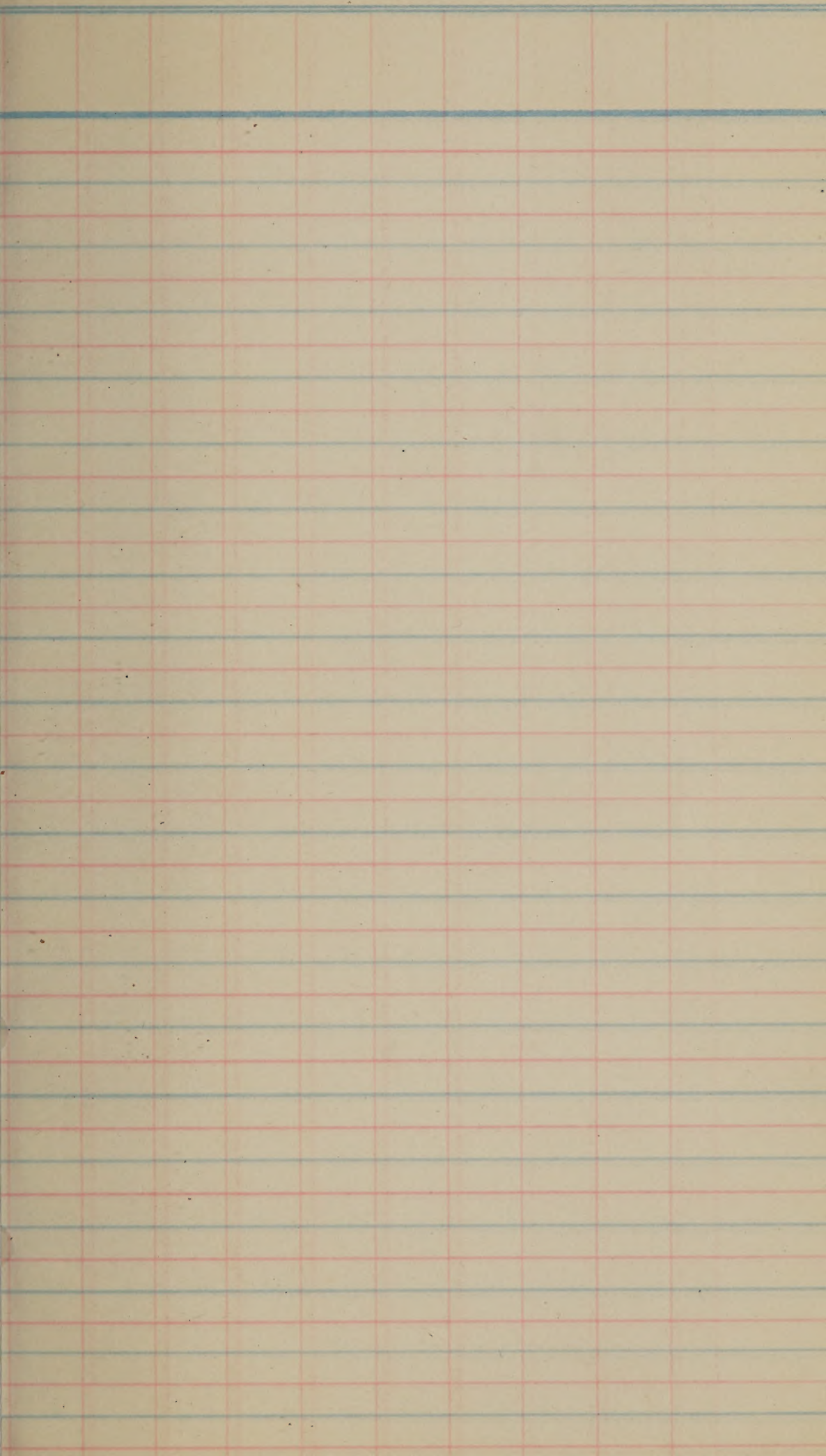
[illegible]

Amt. seed per row	Bus. seed per acre	Seed quality
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Remarks







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